CLAIMS

What is claimed is:

1. A method for initiating the transmission of data, comprising:

    establishing a connection from at least one data source to a destination;

    generating at least one session to transmit data via the connection from the at least one data source to the destination;

    queuing a set of messages from the at least one session for transmission over the connection to the destination; and

    transmitting messages from the queued set of messages based upon completion information.

2. A method according to claim 1, wherein the step of establishing a connection comprises a step of establishing a connection in a pipe.

3. A method according to claim 1, wherein the step of establishing a connection comprises a step of authenticating at least one of the at least one source and the destination.

4. A method according to claim 3, wherein the step of authenticating comprises a step of authenticating both the at least one source and the destination.

5. A method according to claim 1, wherein the step of generating at least one session comprises a step of invoking an application programming interface.

6. A method according to claim 5, wherein the step of invoking an application programming interface comprises a step of receiving a session acceptance from the destination.

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7.   A method according to claim 1, wherein the step of queuing a set of messages comprises a step of queuing the set of messages in at least one input/output buffer.

8.   A method according to claim 1, wherein the message completion information comprises results from a completion port operation of at least one of sending or receiving.

9.   A method according to claim 8, further comprising a step of throttling message traffic in the at least one input/output buffer when the completion port is in a non-drained state.

10.   A method according to claim 1, wherein the step of transmitting comprises a step of asynchronously transmitting messages from the queued set of messages.

11.   A method according to claim 1, wherein the step of transmitting comprises a step of transmitting encrypted messages from the queued set of messages.

12.   A method according to claim 1, wherein the step of transmitting comprises a step of transmitting via a transport layer.

13.   A method for receiving a transmission of data in a destination, comprising:

        establishing a connection with at least one data source;

        accepting at least one session from the least one data source to communicate data via the connection; and

        receiving messages from the at least one data source in a destination input/output buffer.

14.   A method according to claim 13, wherein the step of establishing a connection comprises a step of establishing a connection in a pipe.

15.   A method according to claim 13, wherein the step of establishing a connection comprises a step of authenticating the at least one source.

16.   A method according to claim 13, wherein further comprising a step of storing the messages in storage.

17.   A method according to claim 16, wherein the stored messages comprise a data backup of the at least one data source.

18.   A transmissible message, the transmissible message being generated according to a method of:

    establishing a connection from at least one data source to a destination;

    establishing at least one session to transmit data via the connection from the at least one data source to the destination;

    queuing at least one message from the at least one session for transmission over the connection to the destination; and

    regulating the communication of the at least one queued message based upon completion information.

19.   A method according to claim 18, wherein the step of establishing a connection comprises a step of establishing a connection in a pipe.

20.   A method according to claim 18, wherein the step of establishing a connection comprises a step of authenticating at least one of the at least one source and the destination.

21.   A method according to claim 20, wherein the step of authenticating comprises a step of authenticating both the at least one source and the destination.

22.   A method according to claim 18, wherein the step of generating at least one session comprises a step of invoking an application programming interface.

23.   A method according to claim 23 wherein the step of invoking an application programming interface comprises a step of receiving a session acceptance from the destination.

24.   A method according to claim 18, wherein the step of queuing the at least one message comprises a step of queuing the at least one message in at least one input/output buffer.

25.   A method according to claim 18, wherein the message completion information comprises results from a completion port operation of at least one of sending or receiving.

26.   A method according to claim 18, wherein the at least one message comprises at least one encrypted message.